

H.D

Notice of Allowability	Application No.	Applicant(s)	
	10/728,630	HEO ET AL.	
	Examiner	Art Unit	
	Tuan T. Lam	2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 4/14/2005.
2. ☒ The allowed claim(s) is/are 1-7 and 9-15.
3. ☒ The drawings filed on 14 April 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>4/11/05, 4/14/05</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |



**TUAN T. LAM
PRIMARY EXAMINER**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claim 6:

Line 5, "the preamble" has been changed to --a preamble control signal--.

The changes have been made to provide proper antecedent basis to comply with the 35USC 112, second paragraph and to place the application in a condition for allowance.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: the amendment filed 4/14/2005 has overcome the technical deficiencies and the prior art of record. The prior art of record fails to teach or fairly suggest the first logic unit generating the preamble responsive to a first pulse of the first clock signal, the data strobe signal is in a high impedance state responsive to a last pulse of the first clock signal as called for in claim 1, the first and second logic circuits operates responsive to first and second clock signals as called for in claim 9, the first logic circuit comprises a logic gate, an inverter, a first transmission gate, a second transmission gate as called for in claim 13, the second logic circuit comprises a first inverter, a logic gate, a first transmission gate, a second inverter and a second transmission gate as called for in claim 14. Therefore, claims 1-7 and 9-15 are presently allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Art Unit: 2816

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Lam whose telephone number is 571-272-1744. The examiner can normally be reached on Monday to Friday (7:30 am to 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY P. CALLAHAN can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Tuan T. Lam
Primary Examiner
Art Unit 2816

5/7/2005

Nak-Won HEO and Chang-Sik YOO

CIRCUIT FOR GENERATING A DATA STROBE SIGNAL USED IN A DOUBLE DATA RATE SYNCHRONOUS SEMICONDUCTOR DEVICE

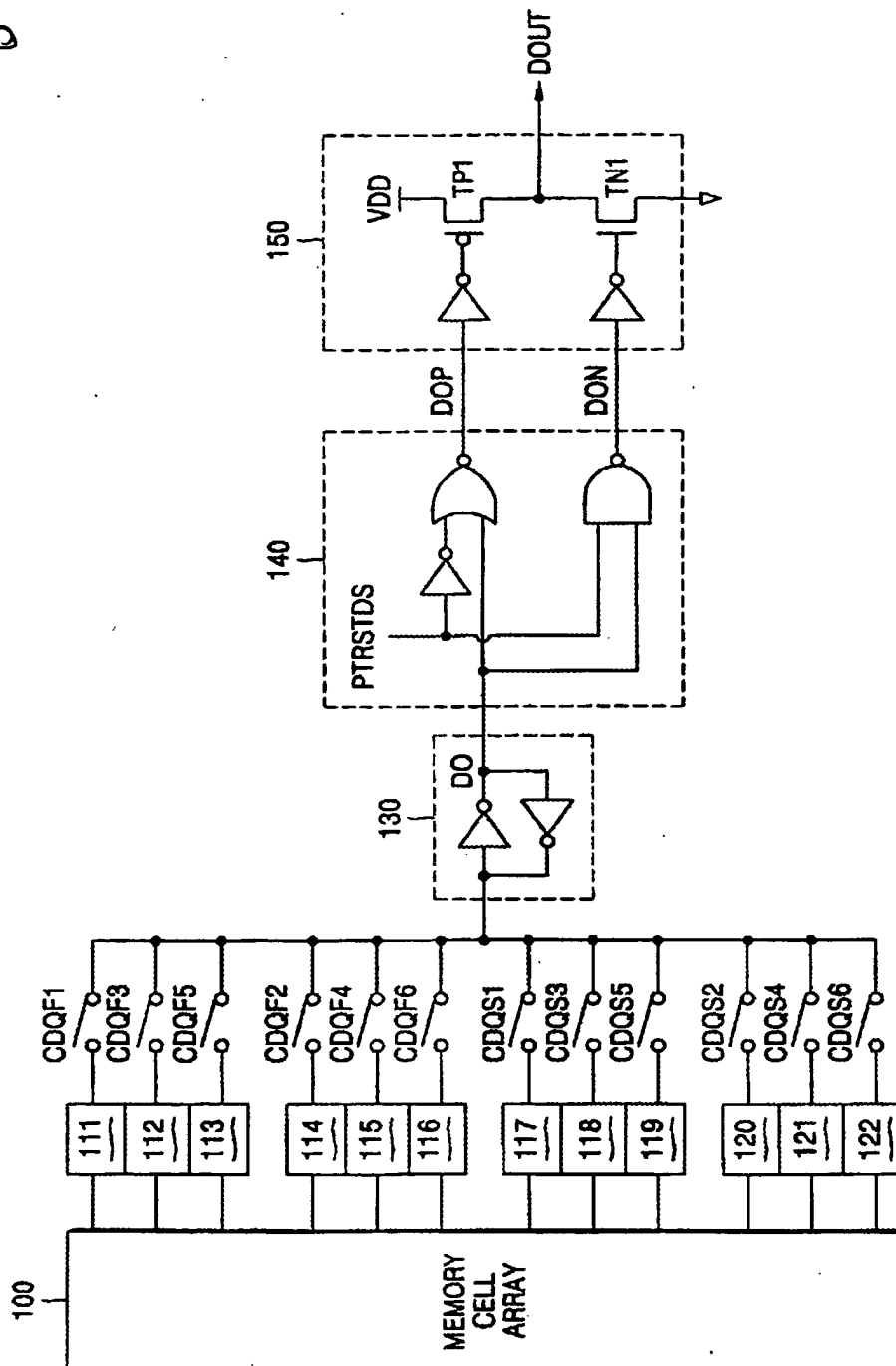
Attorney Docket No. 9898-323/Application No. 10/728,630

1/2

Replacement Sheet

Approved
T/lan
5/7/2003

FIG. 2 (PRIOR ART)



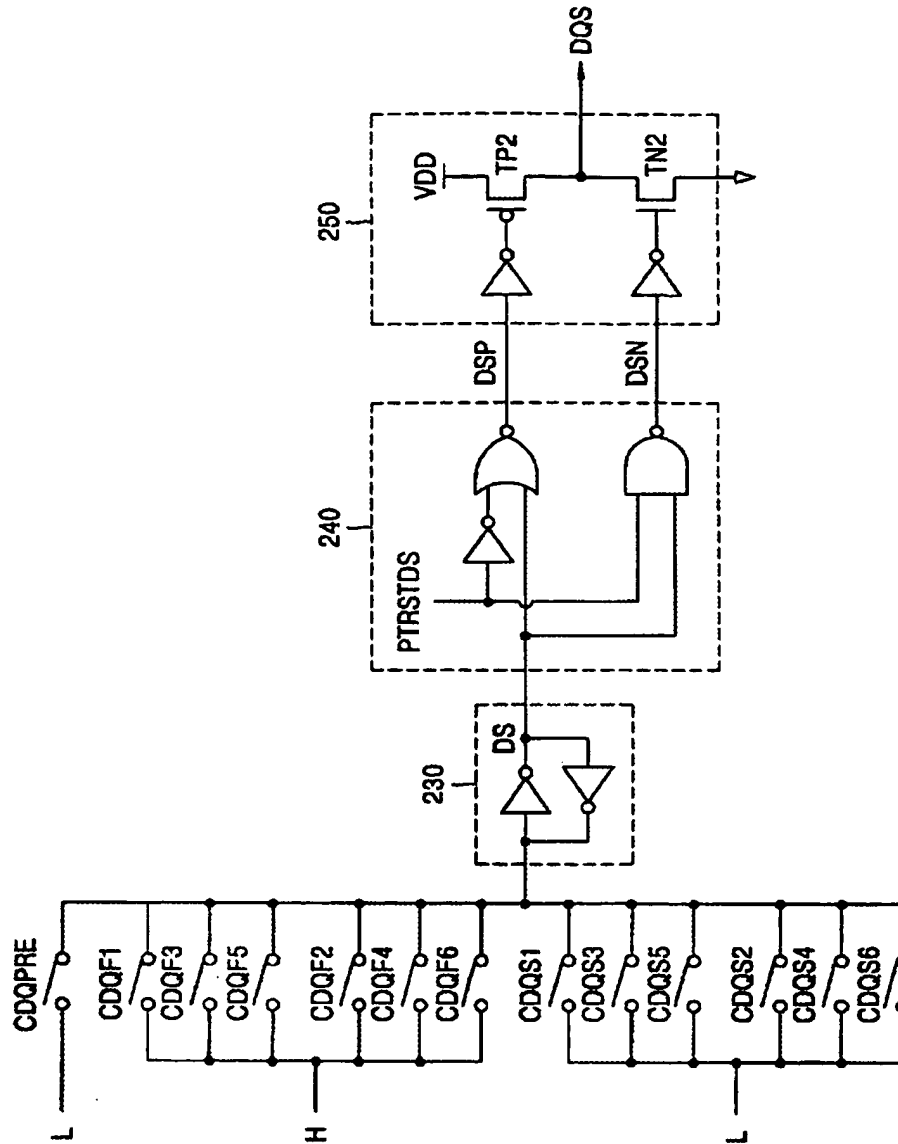
Nak-Won HEO and Chang-Sik YOO
 CIRCUIT FOR GENERATING A DATA STROBE SIGNAL USED IN A DOUBLE DATA RATE SYNCHRONOUS SEMICONDUCTOR
 DEVICE

Attorney Docket No. 9898-323/Application No. 10/728,630

2/2

Replacement Sheet

FIG. 3 (PRIOR ART)



Nak-Won HEO and Chang-Sik YOO

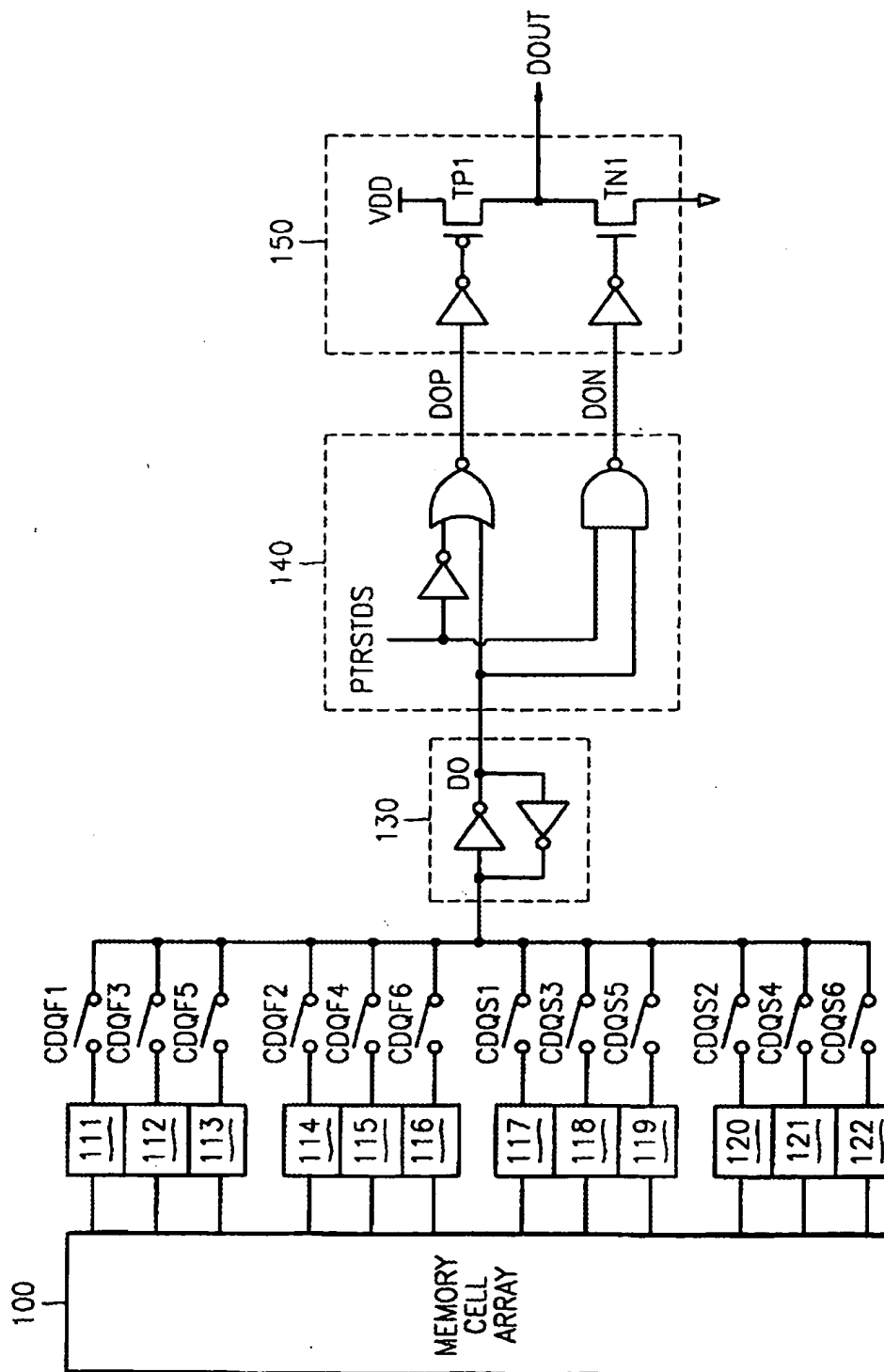
CIRCUIT FOR GENERATING A DATA STROBE SIGNAL USED IN A DOUBLE DATA RATE SYNCHRONOUS SEMICONDUCTOR DEVICE

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1/2

Annotated Sheet Showing Changes

FIG. 2 (Prior Art)



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2/2

Annotated Sheet Showing Changes

FIG. 3 (prior Art)

